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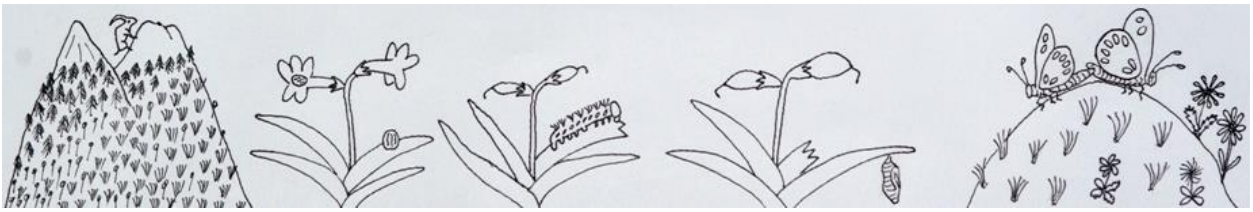

THE COLLECTION OF ERNEST J. OSLAR IN THE C. P. GILLETTE MUSEUM, AND HIS MISLABELED BUTTERFLIES

by
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Abstract. The butterflies in the mostly-papered collection of Ernest J. Oslar (in the Gillette Museum, Colorado State University) are detailed. Numerous mislabeled specimens were found, including 28 species mislabeled from the wrong state, usually Colorado. More biographical details of Oslar are revealed.

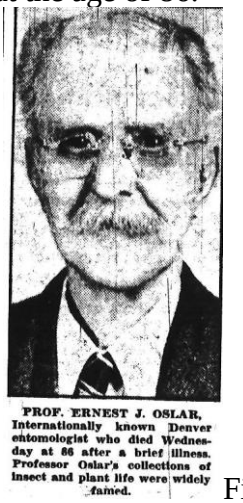
Scott & Fisher (2015) documented mislabeling by Ernest J. Oslar of about 100 *Argynnis (Speyeria) nokomis nokomis* Edwards from the San Juan Mts. and Hall Valley of Colorado, which were actually collected by Wilmatte Cockerell at Beulah New Mexico, and documented his mislabeling of numerous *Oeneis alberta oslari* Skinner from "Deer Creek Canyon, Colorado", [Jefferson County, near Denver] "September 25, 1909", which were actually collected in South Park, Park Co. Colorado, in May or early June.

Paul A. Opler has since found a large batch (~2159 specimens) of Oslar's papered butterfly material in the Gillette Museum, Colorado State University, Fort Collins, Colorado, many of them with obviously false data. That Oslar material was given to the museum by Dave Ruiter, a specialist in Trichoptera, who obtained them from a relative of Oslar while Ruiter lived in metro Denver (Ruiter has since moved to Oregon) (museum director Boris Kondratieff, pers. comm.). That collection is evidently the one Ewan (1950) referred to: "A portion of his collection is at the old Oslar home in North Denver now occupied by his daughter, Mrs. Harold A. Seiler" [no relative of Oslar has lived there for several decades]. Most Oslar envelopes–including 6 of 8 *nokomis* envelopes--have no locality or date (of course the absence of locality or just numbers on envelopes is the first step toward adding fictitious localities); most have species and sex written in pencil, but some have no writing at all. This material includes 28 Oslar butterfly species mislabeled from the wrong state (usually Colorado), including more mislabeled *Argynnis nokomis*. These specimens--mislabeled and apparently properly labeled—are listed below. A few taxonomic treatments of butterflies that cite Oslar specimens are examined below also, which indicate that there are thousands of mislabeled Oslar specimens in museums all across North America and Europe at least.

Brief biography. Ernest J. Oslar (1858-1944) was a Denver dealer of butterflies. Scott & Fisher (2014) gave some biographical details of Oslar based on Ewan (1950) and Ewan & Ewan (1981). Here we combine that information with information from his obituaries in two Denver newspapers (Denver Post Sept. 29 1944 p. 6 with portrait, Rocky Mtn. News Sept. 30 1944 p. 13, 17) and his

butterfly collections including his collection diary reconstructed below. Oslar was born in Whittlesford, Cambridgeshire, England, and came to the U.S. as a young man. He made at least nine trips between England and western U.S., as he studied for the ministry in Philadelphia, and graduated from Oxford University in the early 1890s, and finally settled in Denver in 1893. He married Martha E. Robinson in London while visiting in 1894, and brought her back to Denver (in 1906 he lived at 4535 Raleigh Street in Denver, and at least from 1926 to 1944 he lived at 4189 Julian St. in Denver). Oslar liked football (soccer) and was secretary of the Swifts Football Club, and in the Rocky Mtn. News Nov. 29, 1891 he detailed proper player positions and football rules. In Colorado "He became a familiar figure to mountain visitors with his butterfly net and knapsack." (Denver Post obituary). He placed advertisements in journals (such as Psyche 13[1]:3, Feb. 1906) requesting contracts to collect insects of any order from Colorado, New Mexico, and Arizona. An obituary notes that he was commissioned to make entomological collections for individuals and museums throughout the world. He collected numerous specimens of diurnal Lepidoptera for the Field Museum (Chicago Museum of Natural History) and the John D. Rockefeller collection at Chicago and other museums. Ewan (1950) wrote that Oslar sometimes collected with David Bruce,and labels on his specimens indicate that Oslar collected in Hall Valley and nearby Bullion Peak and Gibsons Gulch (all Park Co. Colo.), where David Bruce collected in 1884 while Bruce headquartered in a cabin above Whale Mine on the slope of Bullion Mtn. near the head of Gibson Gulch in Hall Valley (Bruce may not have been there in 1888-1889 as Ewan & Ewan 1981 wrote, according to Brown 1966). Ewan (1950) wrote that Oslar took high honors for his exhibits of diurnal Lepidoptera at the 1893 World's Fair, but Ewan & Ewan (1981) wrote that in 1892 David Bruce prepared an exhibit of Colo. moths and butterflies for the Chicago World's Fair, and Brown (1966) wrote that in 1892 Bruce was commissioned to gather an exhibit of moths and butterflies of Colorado to be part of the Colorado State exhibit at that Fair and Bruce was paid for travel and salary [half by Colorado Agricultural and Mechanical College=Colorado State University, half by the World Fair committee] to make the exhibit, which appeared at the Columbian Exposition Chicago World's Fair May 1-Oct. 30 1893. So those butterflies exhibited at the Chicago Fair were probably assembled only by Bruce, because Oslar only settled in Denver in 1893 (but Oslar collected in Colorado in 1892, so maybe he could have contributed some specimens). Oslar was the first curator of entomology at the Denver Museum Natural History, in 1908-1911. Ewan reported that he gifted that museum ("around 10000 specimens, mainly regional Lepidoptera, also some material from Africa") but Scott saw few if any Oslar specimens when he visited that museum in the 1960s, and Frank Krell (current DMNH curator of Zoology, pers. comm.) learned that Oslar tried to sell those specimens to the museum but failed, so he removed all his specimens and left. He was a member of the American Entomological Society. Ewan noted that Oslar collected large numbers of diurnal Lepidoptera in the Rocky Mountains for the Field Museum in Chicago and other institutions including the John D. Rockefeller collection in Chicago. Some of Oslar's specimens of Trichoptera Odonata Sesiidae and Pyralidae are in the Essig Museum at Berkeley California, and his Tipulidae etc. and numerous butterflies are in many other museums. Three insects are named after him, including *Oeneis alberta oslari*. Charles Leng named the *Cicindela longilabris* bronze form *oslari* beetle (Cicindelidae) after Oslar, from King Solomon Peak in Needle Mts. San Juan Range 9500' (Trans. Amer. Ent. Soc. 28:121), and Oslar found the green form on Mt. Wilson, 12000' in SW Colorado. Leng wrote that Oslar's "labors have added materially to our knowledge of the Colorado Coleoptera." Oslar probably did collect at many or most of the places whose locations he used to label his butterflies, although he sold about a hundred *Argynnis nokomis* mislabeled with various localities including Hall Valley and Hayden Peak/Mts. despite never collecting any *nokomis* anywhere, and David Bruce had collected in Hall Valley (but Oslar doubtfully collected in Hayden Mts., see Oslar's diary below) so perhaps Oslar had used Bruce's

localities Oslar may have even bought some specimens from Bruce and resold them. Oslar corresponded with Karl Jordan of *Papilio* fame. He sent specimens to Walter Rothschild, who named *Eacles imperialis oslari* Rothschild, 1907 after him. An obituary stated "During the course of his work he traveled over most of the world, making special collections of insect and plant life, one of which he assembled privately for Baron Rothschild." Frank Clay Cross met Ernest Oslar and wrote about Oslar's butterfly pursuits (Cross 1938). Oslar told Cross that he once sold four butterflies to Baron Rothschild for $250 (probably an exaggeration), and told of camping in Mesa Verde for an entire month to catch "a new species of hesperid which took flight whenever he approached it" [a megathymid?]. His marriage to wife Martha E. Robinson lasted 51 years and they had 14 children (11 living in 1944), so Oslar needed a lot of money to support them. Ewan writes "It is a tribute to his enterprise that he was able to support his wife and fourteen children by butterfly collecting" (his income may have been augmented by speculative investments, see below). His obituaries called him "Professor Ernest J. Oslar", but we have found no record of his teaching or employment at schools or colleges. He never published any scientific papers. His collection diary below indicates that he collected butterflies in U.S. starting in 1892, collected often through 1934, and then quit except for some collected in 1940 in southern California. He died of pneumonia Sept. 27, 1944 in Denver at the age of 86.



PROF. ERNEST J. OSLAR, Internationally known Denver entomologist who died Wednesday at 86 after a brief illness. Professor Oslar's collections of insect and plant life were widely famed.

Fig. 1. Ernest J. Oslar, ~1944.

Oslar's butterflies were in triangles, folded sometimes out of clear glassine or thick brown butcher paper but usually out of regular paper, clipped from interesting printed pages that reveal aspects of his life. Many triangles were cut from store catalogues, such as one cut from a coupon order form from The May Company, a Denver department store, which had the typed words "E J OSLAR/ 4189 JULIAN/ CITY and NOV 25 1926 -19". Many triangles were cut from booksellers' lists of entomology books offered for sale, books dated from the late 1800s and early 1900s to 1921 or later, or were cut from pages of newspapers or advertisement flyers concerning local news or society events, or were cut from pages of stories from magazines or novels. But very many were cut from mimeographed or printed pages praising the earning potential of oil wells and the securities (stocks) of oil well drilling companies, plus a few gold and copper and potash mines, treasure-hunting ships, etc. Oslar might have bought some of those oil well investments, and it appears that he might also have been involved in recruiting people to invest in them—at any rate he possessed a large number of advertisements of these speculative investments from which he cut and folded his bug envelopes.

Those envelopes had these revealing and entertaining words: gusher—OHIO MID-CITIES CORPORATION--oil wells in Andrews Co. Texas--Texas oil strikes--speculate 5 to 1 or 100 to 1 to

get rich on Nelson Holding Company a Texas oil well driller--how the writer won two victories on a Nelson well and a Carpenter-W well in the panhandle of Texas--get rich if you invest in oil wells--we are drilling in Stephens and Young Cos. west of Dallas Texas--buy stock in CHRISTMAS OIL CORPORATION in proven oil well gusher territory…Dunn building Fort Worth Texas—C B McKennon 2nd floor Neil P. Anderson Bldg. [another envelope says 6th floor Burk Burnett Bldg.] Fort Worth Texas---buy $10 stock in a well—"TAKE MY WARNING, DELAY NO LONGER. I BELIEV/ A FEW DAYS WILL BRING YOU BIG RETURNS IF YOU ACT IMMEDIATELY."—"make twenty thousand dollars"—$9. per share Capital stock of Yates Ranch Royalties--gusher—Murchison-Fain Well 1800 feet—Constantin-Nelson well——New England Refining Company--Panhandle Oil Company stock—J. K. Hughes Developing Company—Nabob well—Empire of Golden—16,000 barrel gusher—six hundred dollars—American School of Aviation—Kercheval Production Company 304 & S Cotton Exe Building Fort Worth Texas—Reno Marine Salvage-opportunity sunken treasure—Rio Pecos well—handsome returns now—strike! act! final chance—paid out $3,259,000.—Halley Ranch Royalty Winkler Co. West Texas—vessels-our divers-Egyptian fleet-treasure report-jewels—Spindletop!—Potash Resources-rich potash—roaring in for a 1500 to 10,000 barrel gusher—Copper King Mine—inevitable as the crack of doom—a monster winner…most glorious winnings—Messrs Gilbert Johnson & Company PO Box 624 Fort Worth Texas—Brown County HIGH GRAVITY GUSHER—first showing of gold…Chuckwalla Mountain—market value on one San Francisco…TWENTY THREE STREAMS OF LIQUID GOLD—Grasp this golden fortune—gala parade of newly made millionaires—Rio Pecos Syndicate—one billion barrels—Yates Field Royalty Club-wonderful gushers there-greatest opportunity in oildom—OPPORTUNITY OF SKOOKUM GIGANTIC WINNINGS—third largest gusher ever-that beat the Devil!—R. G. Lawton geologist in Stephens County—65,000 BARRELS PER DAY MONSTERS—40 acres in Archer County Texas. These gems go on and on; only a third of the ones copied from the paper triangles are listed here, and there are plenty more not copied.

One envelope had this message: "the commission encloses herewith an…examination for the federal civil service". Perhaps Oslar sometimes sought steadier employment than selling insects and speculative investments.

LIST OF OSLAR SPECIMENS IN THE C. P. GILLETTE MUSEUM

at Colorado State University, Fort Collins, Colorado

Following are Oslar's ~2159 newly-studied papered specimens (several dozen are now mounted). They are generally in folded paper triangles (a few in thicker butcher paper, a few in folded transparent glassine triangles) with one specimen (sometimes two, rarely three) inside each envelope, with name and sex and locality/date (if present) written in cursive with pencil. A few have cursive ink species/locality/ date information. Many were attacked by dermestids at some early time. They had already been sorted previously several decades earlier, by someone who identified most fairly well but was not an expert on western U.S. butterflies, so some were mis-filed and very similar species were not identified well; the details of their phenotype examined in May 2015 allowed Scott to place them into the subspecies and species listed below.

The name of each butterfly below is followed by the total number of specimens, then the localities and dates of specimens that have that data written on the paper envelopes, using Oslar's spellings even when incorrect [correct spellings and counties or locations of the localities are added in brackets]. Mislabeling is indicated with the boldface word **mislabeled**. About 2/3 of the envelopes had no locality or date, and some even lacked the species name—those specimens are usually counted after "no data", or can be enumerated by subtracting the labeled specimen numbers from the total. The sex is indicated for most (m=male symbol, f=female symbol). (*specimens

with nice inked cursive mostly from Juan Viñas, C.R. [Costa Rica] 1924 4000 ft. which may not be Oslar specimens or may be from his collection but caught by someone else.)

Papilionidae

Parnassius clodius Menetries. 9. Gunnison S.W. Colo July 2m; Gunnison Col July 1m; S.W. Colo July 1m; no data 5m. Those localities are **mislabeled** because the species does not occur in Colorado. They are probably from Calif.

Parnassius phoebus smintheus Fabricius=*sayi* W. Edwards. 53. Colo or Col Oslar; Colo or Col; Halls [Hall] Valley [Park Co.] Col July (one June) 5m1f; Gibsons Gulch [near Hall Valley] Col 12000 ft Alt. July or Aug 3m; Oslar. Most of these "Halls Valley" and "Gibsons Gulch" specimens are large so are probably **mislabeled** low-altitude "*sayi*".

Parnassius phoebus hermodur Hy. Edwards. 25. Bullion Peak [near Hall Valley] Col. July or Aug. 3m; Halls Valley [Park Co.] Col July 1m; most had no data. These are smaller, which is typical of *hermodur*.

Parnassius phoebus pseudorotgeri Eisner. 3. Silverton [San Juan Co.] Col Aug 3m.

Battus philenor hirsuta (Skinner). 7. No data [actually from lowland Calif. mts.] 4m3f.

Papilio multicaudata multicaudata Kirby. 1. Ariz June.

Papilio eurymedon Lucas. 17 no data (many have uns covered by orange pollen from a lily such as *Hemerocallis fulva*).

Papilio polyxenes Fabricius. 9. No data 9m.

Papilio zelicaon Lucas. 2. Santa Monica [L. A. Co.] Calif May; S. D. [San Diego] 6/28/30 1m.

Pieridae

Anthocharis lanceolata Lucas. 2. No data 2m.

Anthocharis sara sara Lucas. 27. Mission Valley [San Diego] Calif 5/19/31, 6/1/31; San Diego Calif 4/30/31, 5/5/31; Bear Creek [Jefferson Co.] Col May 3m1f, June 1m; Strontia Springs [near base Platte Can.] Col May 2m. Those 7 "Colorado" specimens are **mislabeled** Calif. *A. sara sara*, based on the size and position of upf black bar and the seven 2nd-generation-phenotype specimens with little unh mottling etc. (a 2nd generation occurs only in California){Colo. only has two other *A. sara* ssp. and *A. julia* (W. Edwards)}.

Euchloe olympia (W. Edwards). 1. Clear Creek [W of Denver, Jefferson Co. Colo.] Col May 1m.

Euchloe ausonides coloradensis (Hy. Edwards). 40. Clear Creek [W of Denver Colo.] Col. May; Strontia Springs [near base Platte Can.] Col May; Chimney Gulch [Jefferson Co.] Col May; Halls Valley Park Co. Col. July or Aug.

Euchloe ausonides ausonides (Lucas). 1. "Webster [Park Co. NE Grant] Col July" 1f, is a **mislabeled** large yellow Calif. female (*coloradensis* females are smaller & less yellow).

Zerene eurydice (Boisduval). 7. Gunnison Col July 2f (**mislabeled** Calif. specimens, as the species occurs only in Calif.); Mission Valley [San Diego] Calif 6/30/31 1f; Mission Canyon San Diego Calif 5/10/31 1f; Whitewater oil desert [just NW Palm Springs] S Calif Octo 9/26 1m.

Zerene cesonia (Stoll). 50. Gunnison Colo. July 3f, Sept. 1m; Deer Creek [Jefferson Co.] Col Sept. 1f; Deer Creek Cañon Col Oct 1m (these six nice Colorado specimens are probably **mislabeled** as this is a very rare stray into Colo. so known Colo. specimens are beat up); Mission Valley [San Diego] Calif 6/30/31; Ariz.

Colias eurytheme Boisduval. 50. Strontia Springs [near base Platte Can.] Col July 28, 1927; San Diego Calif 5/5/31; Los Angeles Calif Fbr. 27/27; Beaumont [Riverside Co.] Calif 7/20/40; Mill Gulch ["Platte Canon 8,000 ft"] Colo July; S. D. [San Diego] 5/5/31, 5/10/31; Bluffs [Aurora] Col 8/11/31; Calif.

Colias philodice "*eriphyle*" W. Edwards. 36. Halls Valley [Park Co.] Col. July, Aug.; Clear Creek [W of Denver Colo.] Col June; Sedalia [Douglas Co.] Col; Sedalia Col April 21, 1922, April 27, 1922; G. S. [Glenwood Springs Garfield Co. Colo. evidently] 7/16/31.

Eurema nicippe (Cramer). 1. No data 1f.

Eurema mexicana (Boisduval). 75. Catalina Mts Ariz. Aug. 1m; Ariz July 1m; Halls Valley [Park Co.] Col July 1m (a stray or **mislabeled**); 44m29f no data (most are probably from Ariz.).

Eurema lisa* (Boisduval & LeConte). 1. In pencil "T. lisa var. alba" f El Paso Tex. Aug., plus nice cursive ink "Juan Viñas, C.R. 15/9/24 4000 ft. "1m. Obviously it cannot have two localities so one is **mislabeled.

**Eurema daira* (Boisduval & LeConte). 1. Limon, C.R.[Costa Rica] Cast. 10/9/24. 1f.

Pereute charops (Boisduval). 26. "Galapa" [Jalapa] Mex. 23m3f. All written in fancy inked cursive.

Aporia crataegi Linnaeus. 1. No data [Europe].

Nymphalidae

Coenonympha tullia ochracea W. Edwards. 18. Casper Wyo. July 1m; Halls Valley [Park Co.] Col. Aug 2m1f; Col 6/2?0/99 Oslar 1m; Durango [La Plata Co.] Colo July 3m; S.W. Colo 6/10/99 Oslar 1m; Silverton [San Juan Co.] Colo July 2m; Jacksons Hole Wyo July 1m; no data 6m.

Coenonympha tullia california Westwood. 40. San Diego [Calif.] 3/17/31, April, 4/30/31, May, 5/18/31, 5/20/31, 5/22/31, 5/23/31, June, 6/1/31, 6/2/31, 6/4/31, 6/8/31; Mission Valley [San Diego] Calif. 5/23/31, 6/30/31.

Cercyonis oetus oetus (Boisduval). 29. Big Horn Mts Wyo 7/21/32 [Oslar evidently was S of Casper that morning, then drove here that day] 3m1f, 7/23/32 1m, 7/25/32 4m; Big Horns Mts Wyo July 2m; Casper Mts. [Laramie Mts. S Casper] Wyo. Aug 2m; Jacksons Hole Wyo July 3m1f; no data 6m7f.

Cercyonis oetus charon (Boisduval). 52. South Park Col 8/20/14, August; Oslar. S.W. Colorado [tiny label] with penciled July; Casper Mts. [Laramie Mts. S Casper] Wyo 8-8-32; 7/21/32; Glenwood Springs [Garfield Co. Colo.] 7/16/31; Oslar Silverton [San Juan Co.] Col. [tiny yellowed labels] with penciled July or Aug; Halls Valley Park Co. Colo. 8/20/14; Plainview [Rocky Flats near Coal Creek, Jefferson Co.] Col July; July; Col.

Cercyonis pegala nephele Kirby = "*olympus"* (W. Edwards). 57. Clear Creek [W of Denver Colo.] July or Aug; Garden Creek, Casper Mts. [Laramie Mts. S of Casper, Natrona Co.] Wyo 8/5/32; Casper Mts. Wyo 5,000 ft Alt July; Eldorado Springs Col. July; Bluffs [Aurora] Col. Aug.; Glenwood Springs [Garfield Co. Colo.] 7/12/30; Oslar Glenwood Spgs Col [tiny label]; Nigger [now Negro] Hill Deer Creek [Laramie Mts. S of Casper] Wyo 7/31/32; Mill Gulch Platte Canon 8,000 ft Alt Col. July.

Oeneis probably *calais altacordillera* Scott. 2. No data 1m1f (the female may be *O. chryxus*?).

Erebia callias W. Edwards. 23. Halls Valley [Park Co.] Col July 1m; Bullion Peak [near Hall Valley] Col. July [a large glassine envelope says Bullion Peak 12,000' E. Oslar July 1933 in someone else's handwriting] 1m; no data 21m.

Erebia epipsodea Butler. 51. Bullion Peak Gibsons Gulch [near Hall Valley] July 1m; Bullion Peak Halls Valley [Park Co.] Col. July 13000 ft. 1m; Halls Valley Col. July 1m; North Park Col. July 1m; no data 47m.

**Ithomia patilla* Hewitson 1m, *Ithomia heraldica* Bates 2m1f, *Heterosais edessa nephele* Bates 4f, all Ithomiinae from Juan Viñas Costa Rica 4000 ft. 12 (two 13)/9=Sept./24 (all fancy inked cursive).

Asterocampa leilia W. Edwards. 1. Tucson Arizona 1m.

Asterocampa celtis jeffermont Scott & Fisher. 4. Clear Creek [W of Denver] Col Aug. 2m; Clear Creek Canon [Jefferson Co.] Col June 1m; Chimney Gulch [Jefferson Co.] Col June 1m.

Limenitis arthemis astyanax Fabricius. 2. No data 2m.

Adelpha californica (Butler). 4. Mission Valley [San Diego] Calif. July 1f; San Bernardino Mts Calif June 1m; Durango [La Plata Co.] Colo July 1m (**mislabeled**, as *A. californica* occurs only in Calif.); no data 1f.

Adelpha eulalia Doubleday. 6. Mission Valley [San Diego] Calif. July 1m (**mislabeled** as only *A. californica* occurs in Calif.--probably came from Arizona); Florida Mesa [S of Durango, La Plata Co.] Colo July 1m; Durango Colo July 1m (these two perfect Colo. specimens might be **mislabeled** also, as *Adelpha* are rare in Colo., and strays tend to get beat up); Mid Wide Ridge Chiricahua Mts Ariz July 1f; no data 2m.

Junonia coenia Huebner. 21. 7/30/40 [probably Beaumont Calif.]; Beaumont [Riverside Co.] Calif. 7/23/40; S. D. [San Diego] 7/6/30, 5/10/31, 5/20/31, 6/2/31, 6/4/31, 6/7/31, 7/6/31; San Diego Calif July; Bear Lake, San Bernardino Calif Aug 1/26; Calif 8/1/26 (same day as San Bernardino).

Junonia evarete nigrosuffusa Barnes & McDunnough. 9. No data 7m2f (surely all are from S Arizona).

**Anartia fatima* (Fabricius). 3. Juan Viñas, C.R.[Costa Rica](one says 4000 ft.) 26/8/24 three.

Aglais milberti (Godart). 9. Casper Wyo July one; Golden [just W Denver] Col 5/27/00 one; Oslar. Platte Canon Col. 2 [tiny label]; no data 5.

Nymphalis antiopa Linnaeus. 1. No data.

Nymphalis californica californica (Boisduval). 2. No data, but both are the strongly-striped form that is usual in Calif., and they are not the unstriped Colo. ssp. *timidar* Scott & Kondla, so they are probably from California.

Polygonia satyrus satyrus (W. Edwards). 1. No data 1f.

Polygonia gracilis zephyrus (W. Edwards). 14. Strontia Springs [near base Platte Can.] Col June 1m; no data 13 (including 1m slightly darker uns mounted no data determined by gnathos).

Polygonia oreas nigrozephyrus Scott. 1. No data 1m (mounted), determined as *oreas* from blackish uns and wide gnathos. Its uph phenotype shows it is ssp. *nigrozephyrus* collected from Front Range Colorado.

Vanessa atalanta (Linnaeus). 3. S.[an] F.[rancisco]. Calif Sept. 16/12 one; no data 2.

Vanessa virginiensis (Drury). 5. Beaumont [Riverside Co.] Cal. 7/9/40 one; no data 4.

Vanessa carye annabella (Field). 23. Durango [La Plata Co.] Colo 6/5/99 Oslar 1; [no locality] Oslar 7/19/99 one; S. D. [San Diego] Calif 2; Mission Beach [San Diego] Calif 5/9/31 one; Mint Canon [L. A. Co.] Calif May one; no data 17.

Vanessa cardui (Linnaeus). 40. Clear Creek [W of Denver] Col May 1; Oslar. Glenwood Spgs [Garfield Co.] Oslar. [tiny label] 1; no data 38.

Hamadryas feronia (Linnaeus). 1. El Paso Texas July 1m (a rare stray or **mislabeled**).

Poladryas minuta arachne (W. Edwards). 8. No data 7m1f.

Euphydryas editha quino (Behr)=*wrighti* Gunder probably [ssp. *quino* based on appearance and known Oslar collections from San Diego Co.]. 1. No data 1f.

Euphydryas chalcedona chalcedona (Doubleday). 4. Grand Junction [Garfield Co.] Col July 1m; Grand Junction July (in black ink instead of the usual pencil) 2m (all three **mislabeled** as ssp. *chalcedona* occurs only in Calif. Coast Ranges); no data 1m.

Euphydryas anicia carmentis Barnes & Benjamin. 29. Most labeled S.W. Col 6/(1, 3, 4, 10, 14, 15, 16, 17, 20, 21, 23, 25, 27, 30)/[18]99. These have the paler uns of *carmentis*, so are evidently from S or W of the San Juan Mts. The dates coincide with those of *E. anicia capella* below, so

many dates could be mislabeled as their locales are 400 mi apart, but a reasonable explanation is that Oslar's kids caught the *capella* while Oslar was in SW Colo.

Euphydryas anicia capella (Barnes). 145. Coal Creek [Jefferson Co.] Col June; Coal Creek Cañon Col June; Platte Cañon Col June; Plainview [Rocky Flats near Coal Creek, Jefferson Co.] Col June; Golden [just W Denver] Col 6/10/99, 6/17/99 Oslar, 6/20/99, 6/27/99, 6/29/99, 6/17/00, 6/17/00 Oslar; Clear Creek [W of Denver] Col 6/15/99, 6/20/99; S.W. Col 6/10/99 (1m **mislabeled** because ssp. *capella* does not occur in SW Colo. and he or one of his kids was at Golden that day) The *capella* dates coincide with those of *E. anicia carmentis* above, so many dates could be **mislabeled** as their locales are 400 mi apart, or maybe one of Oslar's 14 kids caught these *capella* while Oslar was in SW Colo.

Microtia dymas chara (W. Edwards). 6. No data 3m3f. These are surely from S Arizona.

Chlosyne nycteis drusius (W. Edwards) X *nycteis* (Doubleday). 1. Salida [Chaffee Co.] Colo July 1m C. *nycteis* does not occur right at Salida though occurs southward at N end of Wet Mountain Valley, and this male has ups less black than normal *drusius*, and resembles NW Colo. *drusius*X*nycteis*.

Chlosyne gorgone (Huebner). 21. Bailey [Park Co.] Colo July 2f; Baileys Colo July 1m; Clear Creek [W of Denver] Col. June 2m; Casper Wyo July 2m; Denver Col May 2f; May 1f; no data 7m4f.

Chlosyne theona thekla (W. Edwards). 1. Pagosa Springs [Archuleta Co.] Col July (1m **mislabeled** because the nearest pop. is in southern Arizona where this was probably collected).

Chlosyne leanira wrighti W. Edwards). 25. Rico [Dolores Co.] Col Aug (1f **mislabeled**, only occurs in Calif.--the "Rico Col. Aug." handwriting is larger than the rest and was evidently added later). The others seem properly labeled with "M. wrightii" and sex plus: Mission Hills San Diego Co. Calif 6/2/31 4m1f; [evidently Mission Hills] 6/2/31 4f; Mission Hills S. D. [San Diego] 6/4/31 4m1f; San Diego Co. Calif 1m; San Diego Calif July 2m; Mint Can. L.A. Co Calif 4/29/27 1m; no data 5m2f.

Chlosyne leanira fulvia (W. Edwards). 37. Durango [La Plata Co.] Col Aug 4m2f. One m is very black; no data 21m10f.

Chlosyne palla palla (Boisduval). 1. S.W. Col 6/11/99 Oslar 1m (**mislabeled** from Calif. as ups is rather pale, paler than Front Range *C. p. calydon*, and ssp. *flavula* (Barnes & McDunnough) is not known to occur in SW Colo. and has much paler uns.).

Chlosyne palla calydon (Holland). 2. Plainview [Rocky Flats near Coal Creek, Jefferson Co. Colo.] June 1m; Plainview Col June 1f.

Chlosyne gabbii gabbii (Behr). 1. Mission Valley [San Diego] Calif 5/23/31 1m.

Chlosyne acastus neumoegeni (Skinner). 12. Eagle [Eagle Co.] Col Aug 4m6f (all are **mislabeled** Calif. butterflies, because all have ups much too pale to be Colo. *acastus* and they match Calif. *neumoegeni* so are probably from San Diego Co. Calif.); no data 1m1f.

Phyciodes mylitta mylitta (W. Edwards). 5. Big Horn Mts Wyo July 2m (**mislabeled**, does not occur there); Gunnison Colo July 1m (**mislabeled**, does not occur there); 1m1f no data. All are probably from San Diego Co. Calif.

Phyciodes orseis orseis W. Edwards. 3m (mounted). 2m no data. 1m has tiny label "Oslar Gunnison Col" which is **mislabeled** because ssp. *orseis* only occurs in NW Calif. (Trinity and Siskiyou Cos. today, extinct southward to Napa Co. and evidently San Francisco where it occurred in the early 1900s) and extreme SW Ore. (Jackson, Klamath Cos.) so these were evidently coll. in NW Calif. All three were in transparent glassine triangles as were many *P. pulchella pulchella* with same tiny Gunnison labels, but the phenotype of those *pulchella* occurs at many places in S and N Calif. (except the Central Valley and Sierra Nevada) so is no help in determining the origin of these three *orseis*. Oslar's collection had no other butterflies from NW

Calif. except two *Argynnis hydaspe purpurascens* from the N Sierras or NW Calif. that were also mislabeled "Gunnison Col July" in pencil. The most likely origin of these *orseis* is the Shasta City area based on accessibility (Oslar labeled a *Callophrys sheridanii viridis* "Shasta City" but it was mislabeled and probably came from San Francisco).

Phyciodes pallida pallida (W. Edwards). 4. Platte Canon Strontia Spgs [base of Platte Can.] Colo June 1m; Clear Creek Canon [Jefferson Co.] Colo June 1m; no data 2m.

Phyciodes pallida barnesi Skinner. 6. Oslar Glenwood Spgs [Garfield Co.] Col 6/7/01 1m; Oslar. Glenwood Spgs Col. [tiny label]; no data 3m.

Phyciodes tharos orantain Scott. 1. Casper Wyo 8/7/32 1f.

Phyciodes cocyta selenis (Kirby). 10. Halls Valley [Park Co.] Col July 1m; Casper Wyo [Laramie Mts. to south evidently] Aug 1m; Catalina Mts. Ariz. Sept 1f (this "Ariz." female **mislabeled**, evidently switched from a *Phyciodes graphica=vesta* envelope labeled "Montrose Colo July", as *P. cocyta* does not occur in S Ariz.); no data 4m3f.

Phyciodes pulchella pulchella (Boisduval). 23. Oslar Gunnison Col [tiny labels) 19m2f (8m2f were mounted); no data 2m. All the Gunnison specimens are **mislabeled** because ssp. *pulchella* only occurs in Calif. 3m *P. orseis orseis* were in same transparent triangles with same tiny labels and that only occurs in NW Calif. so these *pulchella* may be from NW Calif.].

Phyciodes pulchella camillus W. Edwards. 41. Casper Wyo July 1m1f; Plain View [Plainview, on W side Rocky Flats near Coal Creek, Jefferson Co.] Col June 1f; Clear Creek Cañon [Jefferson Co.] Colo July 1f; S.W. Colo 6/14/99 Oslar 2m; Jacksons Hole Wyo July 2m; no data 33.

Phyciodes picta canace (W. Edwards). 18. Tucson Ariz July 1m; Ariz 1m; Oslar. S.W. Colorado [tiny labels] 3m; Oslar. S.W. Colorado [tiny labels] 6-10-04 1m; Oslar. San Miguel Col. [tiny label] 2m; Gunnison Colo July 1f (**mislabeled** because *picta* does not occur there); no data 9m.

Phyciodes graphica (Felder)=*vesta* (W. Edwards). 3. Catalina Mts Ariz Sept 1m; Ariz Sept 1m; Montrose Colo July (1m perfect **mislabeled** because *vesta* is a very rare stray to Colo.; this specimen was evidently switched from a *Phyciodes cocyta* envelope saying "Catalina Mts Ariz Sept" [see *P. cocyta*]).

Phyciodes (*Anthanassa*) *texana texana* (W. Edwards). 6. El Paso Tex June 1m2f; Catalina Mts. Ariz June 1m; no data 2m.

**Eresia clara Bates*. 1. Juan Viñas, C.R. 4000 ft. 12/9/24 1f.

**Actinote pellenea*. Juan Viñas, C.R. 26/8/24 4000 ft. one; Jacaris? 9-4-72.

Callicore ~faustina (Bates). 1. French Guiana, S. A.

Dione "*Agraulis*" *vanillae* (Linnaeus). 18. San Diego Calif 5/20/34 1m, 6/23/40 1m; San Diego Calif May 6m1f; San Diego Cala 6/22/40 2m; S. D. [San Diego] 7/9/31 1f; Beaumont [Riverside Co.] Cal or Calif or Cala 7/9/40 1m, 7/14/40 1m, 7/23/40 1f; Calif July 1m; Platte Cañon Col June 1m; Platte Canon June 1m; Littleton [Denver suburb] Col June 1m. (*D. vanillae* is a very rare stray to Colorado, so these three "Colorado" specimens are probably **mislabeled** because finding 3 fresh ones is highly unlikely.)

Dione moneta poeyi Butler. 1. No data 1m.

Euptoieta hegesia (Cramer). 4. Nogales Ariz 7/17/03 one; Nagolis [Nogales] Ariz July three.

Euptoieta claudia (Cramer). 50. San Diego or S. D. [San Diego] Calif May-15 spec., June-5 spec.; Santa Monica {L. A. Co.] Calif May-2, June-2; Banning [W of Palm Springs] Calif June-1; Cardif Col June [**mislabeled**, meant Cardiff just N San Diego Calif.]-1; Clear Creek [W of Denver] Col June-6, July-2; Plain View [Plainview, W side Rocky Flats near Coal Creek, Jefferson Co.] Col June-5, July-1; Denver Col July-1; Platte Cañon [one has Canon] Col June-5, July-1; Colo June-3.

Argynnis paphia (Linnaeus). 3. [Europe]

Argynnis aglaja (Linnaeus). 1. [Europe]

Argynnis adippe (Schiffermueller) form cleodippe. 1. [Europe]

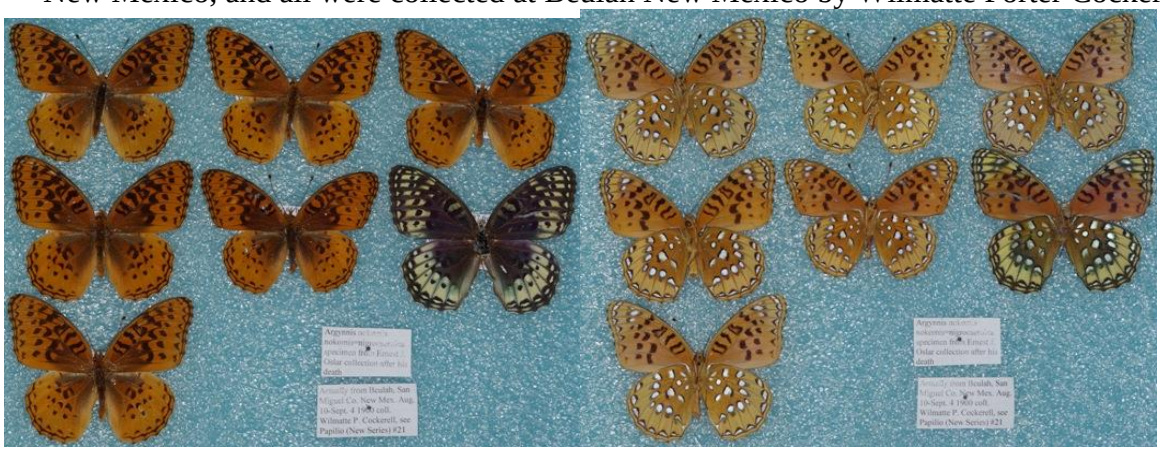
Argynnis (*Speyeria*) *cybele leto* Behr. 5. Garden Creek [Laramie Mts. S of Casper in Natrona Co.] Wyo 7/21/32 1m, 8-3-32 2m; 7/21/32 1m1f [surely from Garden Creek Wyo also based on date]. These ssp. *leto* have female whiter, unh submarginal band narrower, uph base less dark than ssp. *charlotti*).

Argynnis (*Speyeria*) *cybele charlotti* Barnes. 14. Oslar. Glenwood Spgs [Garfield Co.] Col. (tiny printed labels) 7/11/31 2m, 7/12/31 1m, 7/13/31 1m, 7/14/31 2m; Glenwood Spgs Col (no tiny labels) 7/12/31 1m, 7/31/31 2m, 8/5/31 1m; 7/15/31 1m & 7/17/31 1m & 7/18/31 2m & are surely Glenwood Spgs also based on dates.

Argynnis (*Speyeria*) *aphrodite byblis* (Barnes & Benjamin). 7. Glenwood Spgs [Garfield Co.] Col 7/12/31 1m, 7/29/31 1m, 7/30/31 1m, July 1f; 7/21/31 [date suggests it is Glenwood Spgs also, see *A. cybele charlotti* records] 1m; Gunnison Col July 2m; Senator (=Maxton, Yavapai Co.) Ariz 7/5- [18]98 1m. Some or most of these could be ssp. *whitehousei=ethne* because ssp. *byblis* is mainly identified by smaller size and these are not especially small.

Argynnis (*Speyeria*) *aphrodite whitehousei* Gunder=*ethne* Hemming. 9. Clear Creek [W of Denver] Col Aug 1m; Bluffs [Aurora] Col July 1f, Aug 5m; Plainview [Rocky Flats near Coal Creek, Jefferson Co.] Col July 1f; no data 2m.

Argynnis nokomis nokomis W. Edwards. 1 labeled "A. nitocris female/ Hayden Peak/ S. W. Colo/ Aug.", and 1 labeled "A. nitocris male/ Hayden Peak/ San Juan Mts./ S. W. Col/ Aug." were **mislabeled** (Scott & Fisher 2014). 5m had no data just "A. nitocris male". All specimens have wing phenotype like other known *A. nokomis* from the E side of the Sangre de Cristo Mts. in New Mexico, and all were collected at Beulah New Mexico by Wilmatte Porter Cockerell.



Figs. 1-2. E. Oslar *Argynnis nokomis nokomis* specimens newly found in Gillette Museum, Colorado State Univ. (#1-5 no data or locality, #6-7 labeled Hayden Peak San Juan Mts. SW Colo. Aug.). All are actually from Beulah New Mex.

Argynnis (*Speyeria*) *edwardsii* Reakirt. 56. Clear Creek [W of Denver] Col June; City Park Denver 9/2/31; Denver Col or Colo 5/26/34, 5/28/34, 5/30/34, June, June 6/30, 6-11/32; Chimney Gulch [Jefferson Co.] Col June; Platte Cañon Col June; Casper Wyo. 8/22/32; Bighorn Mts 7-25-32 Wyo.; no data 32.

Argynnis (*Speyeria*) *hydaspe rhodope* W. Edwards. 3. Casper Mts [Laramie Mts. S Casper] Wyo 8-8-32 1f; Big Horn Mts. Wyo 7/25/32 1m; Senator (=Maxton, Yavapai Co.) Ariz 7/7/98 1m (**mislabeled** because *A. hydaspe* does not occur in Ariz.).

Argynnis (*Speyeria*) *hydaspe purpurascens* Hy. Edwards. 4. "Gunnison Col July", all 4m **mislabeled** because *S. hydaspe* does not occur in central Colorado. The phenotype is ssp. *purpurascens* from N California, which does not occur in Colo.

Argynnis (*Speyeria*) *callippe meadii* W. Edwards. 5. Clear Creek Canon [Jefferson Co.] Col Aug 3f; Chimney Gulch [Jefferson Co.] Col 6/15/32 1m; 7-25-32 1f.

Argynnis (*Speyeria*) *callippe gallatini* McDunnough. 1. Big Horn Mts Wyo July 1f.

Argynnis (*Speyeria*) *atlantis sorocko* Scott, Kondla & Spomer. 1. No data 1m, surely coll. in the Colorado Mts. (Canadian-Hudsonian Zones).

Argynnis (*Speyeria*) *hesperis electa=cornelia* W. Edwards=*nikias* Ehrmann. 11. Glenwood Spgs [Garfield Co.] Col 7/14/31 1m, 7/16/31 1m, 7/17/31 1m, 8/3/31 1m, 8/6/31 1f; no data 6m.

Argynnis (*Speyeria*) *hesperis hesperis* W. Edwards. 7. Clear Creek Can. [Jefferson Co.] Col. June 1m; Coal Creek [Jefferson Co.] Col. June 1m; Platte Canon or Cañon Col June 2m, July1f; Mill Gulch ["Platte Canon 8,000 ft"] Col July 1m; Casper Wyo [evidently Garden Creek in Laramie Mts. S of Casper, Natrona Co. 7/21/32] July 1m.

Argynnis (*Speyeria*) *zerene platina* SkinnerX*garretti* Gunder . 8. Big Horn Mts Wyo July 1m, 7/24/32 1f, 7/25/32 1m3f, 7/26/32 1m; no data 1m.

Argynnis (*Speyeria*) *zerene zerene* Boisduval. 1. "Gunnison Colo July" 1m is **mislabeled**, as ssp. *zerene* only occurs in the Calif. Sierra Nevada.

Argynnis (*Speyeria*) *coronis semiramis* W. Edwards. 2. Calif 6/15/40 2m [these are surely from S Calif. near San Diego where Oslar collected in June 1940].

Argynnis (*Speyeria*) *coronis snyderi* Skinner. 1. Bighorn Mts Wyo 7-25-32 1f.

Argynnis (*Speyeria*) *coronis halcyone* W. Edwards. 43. Chimney Gulch [Jefferson Co.] Col 6/9/00, 6/25/00; Golden [just W Denver] Colo 6/2/00, 6/5/00, 6/7/00, 6/9/00, 6/12/00, 6/15/00, 6/16/00, 6/17/00, 6/22/00; Plainview [Rocky Flats near Coal Creek, Jefferson Co.] Col June; Platte Canon Col 8/30/00; Clear Creek [W of Denver] Col; Colo.

Argynnis (*Speyeria*) *mormonia eurynome* W. Edwards. 69. Tolland [Gilpin Co.] Col July; Halls Valley [Park Co.] Col July, Aug; Kenosha Pass [Park Co.] Colo; Silverton [San Juan Co.] Col; North Park Col July 30; Deer Creek Muddy Mts. [S Casper, Natrona Co.] Wyo. 7/31/32; Casper Mts. [Laramie Mts. S Casper] Wyo. 8-8-32; Bighorn Mts. Wyo. July; 7-25-32 [he was in Big Horn Mts. Wyo. that day]; Webster [Park Co. NE Grant] Col. July.

Boloria eunomia caelestis (Hemming). 8. Gibsons Gulch [near Hall Valley] Col 2m; Rico [Dolores Co. Colo.] Col Aug 5m; no data evidently also Rico [Dolores Co.] Col Aug 1m. The Rico specimens are **mislabeled**, because *B. eunomia* does not occur in SW Colo.

Boloria epithore sierra E. Perkins. 3. Rico [Dolores Co.] Colo Aug 2m; Rico [Dolores Co.] Col 1m. All 3m from Rico are **mislabeled** because *B. epithore* does not occur in Colo. They seem to be from Sierra Nevada of Calif. because the uph black markings are rather thin.

Boloria titania helena (W. Edwards). 20. Rico [Dolores Co.] Col July 3m [probably **mislabeled**? because all other Oslar Rico specimens are mislabeled]; Halls Valley [Park Co.] Col July 8m; Tolland [Gilpin Co.] Col June 1m, July 6m; no data 2m.

Lycaenidae

Lycaena virgaureae virgaureae (Linnaeus). 4. No data, but caught in Europe.

Lycaena arota virginiensis (W. Edwards)=*schellbachi* Tilden. 11. Mill Gulch ["Platte Canon 8,000 ft"] Col 2m; Platte Can Col July 1m; Oslar; Bear Creek Morrison [Jefferson Co.] Col. [tiny labels] 1m2f; no data 4m1f. The Bear Creek butterflies are evidently **mislabeled** as *L. arota* does not get north to Bear Creek, it only extends north to South Turkey Creek where it is very rare at Tinytown; the reason is that its area host *Ribes leptanthum* occurs only in the Platte River Canyon valley bottoms southward. They were probably from the Platte Can.

Lycaena gorgon (Boisduval). 15. "Oslar. San Miguel Col." [tiny labels] with July in pencil on envelope 4m; no data 11m. All 4m San Miguel specimens are **mislabeled** because *L. gorgon* does not occur outside California where they were actually caught.

Lycaena xanthoides "*editha* (Mead)" *vurali* Kocak. 14. Big Horn Mts Wyo July 5m4f; Jacksons Hole Wyo 1f; no data 2m2f.

Lycaena dione (Scudder). 4. Plainview [Rocky Flats near Coal Creek, Jefferson Co.] Col July 1m; July 2m; no data 1m.

Lycaena helloides (Boisduval). 19. Mission Valley S. D. [San Diego] 6/1/31 1m; San Gabriel Canon [N of L.A.] Calif May 1m; no data 12m5f.

Lycaena probably *helloides* [or *L. florus* (W. Edwards)]. 4. Aug 2f ; August in pencil plus tiny label "Oslar. Platte Cañon Col." 1f; no data 1m. Without good localities Scott cannot be certain that these are *L. helloides* or *L. florus*, but they all resemble *helloides*.

Lycaena florus megaloceras (Ferris). 2. Teton Mts. Wyo July 1m1f. The female has cream ups and male has few orange uph lunules, both typical of *megaloceras*.

Lycaena heteronea gravenotata Klots. 23. Plain View Col July 4m; Deer Creek [Laramie Mts. S of Glenrock, Converse Co.] Wyo. 7/31/32 1f; no data 13m5f.

Lycaena heteronea near *heteronea* Boisduval (high altitude of Colo.). 7. Platte Canon Col July 1m; Platte Cañon July 2m; "clara" 4m. The "clara" on envelopes evidently was written because at high altitude near the continental divide (on Clear Creek and evidently also Platte Canyon) about 5% of females are all powdery-blue on ups similar to females of S Calif. ssp. *clara* Hy. Edwards.

Lycaena heteronea heteronea. 4. Big Horn Mts July 1f; Big Horn Mts Wyo July 1m2f. Ssp. *heteronea* has very small to absent unh spots.

Lycaena rubidus (Behr). 39. Casper Wyo Aug 1f; no data 38.

Habrodais grunus (Boisduval). 1. "Thecla unknown f Taos Colo. Aug." 1f. Obviously **mislabeled**, as the butterfly does not occur in Taos New Mexico or Colorado, and only occurs in Ariz. and in Calif. This female is probably from San Diego Co.

Hypaurotis crysalus (W. Edwards). 4. Jarre Canon [Douglas Co.] Col Aug 1m; Strontia Spgs [near base of Platte Can.] Col July 1m; no data 2m.

Satyrium titus watsoni (Barnes & Benjamin). 10. Platte Canon Colo July 1m1f; no data 6m2f.

Satyrium titus immaculosus (W. Comstock). 2. Casper Mts [Laramie Mts. S of Casper] Wyo 8-8-32 1m1f.

Satyrium behrii crossi (Field). 13. Platte Canon Col July 2m; Clear Creek Canon [Jefferson Co.] Colo July 1m; no data 5m5f.

Satyrium saepium saepium (Boisduval). 6. Casper Wyo Aug 1m; Clear Creek Cañon [Jefferson Co.] Col July 1m; Boulder Cañon [Boulder Co.] Colo July 1m; S. D. [San Diego] 6/4/31 1m; no data 2m.

Satyrium californica californica (W. Edwards)=*cygnus* (W. Edwards)=*helenae* Fisher. 1. No data 1m. This male has considerable tawny on uph tornus so is not ssp. *wapiti* Fisher. It is probably from W of Denver.

Satyrium liparops aliparops (Le Conte). 5. Platte Canon Col (one Colo) July 3m; Clear Creek Canon [Jefferson Co.] Col July 1m; no data 1m.

Satyrium calanus godarti (Field). 13. Platte Canon Col (one Colo) July 3m; Clear Creek Canon [Jefferson Co.] Col July 1m; no data 3m6f.

Callophrys sheridanii sheridanii (W. Edwards). 1. Chimney Gulch [Jefferson Co.] Col May 1m.

Callophrys sheridanii viridis (W. Edwards). 2. San Francisco Calif Mar 1m; "Mt. Shasta Cal April" 1f (**mislabeled**, from the C-N Calif. coast, probably San Francisco). These were identified by very white antenna shaft and many white unh spots.

Callophrys dumetorum dumetorum (Boisduval)=*perplexa* Barnes & Benjamin. 5. San Diego Calif Feb 1f; S D [San Diego] Cal Feb 1f; no data 2m1f. These are similar to *homoperplexa* in wing pattern, but have some whitish streaks along antenna shaft but not as much white as *viridis*.

Callophrys dumetorum "*affinis* (W. Edwards)" *homoperplexa* Barnes & Benjamin. 25. Chimney Gulch [Jefferson Co.] Col May 1m; Chimney Gulch. Col. ?/5-?/27 1m; no data 18m5f.
Callophrys gryneus siva (W. Edwards). 12. Chimney Gulch [Jefferson Co.] Col June 3m1f; Strontia Sprgs. (1m Springs) [near base Platte Can.] Col. 6/29/27 1m3f; no data 2m2f.
Callophrys polios (Cook & Watson). 2. No data 2f. Surely from the Front Range Colo. foothills.
Callophrys mossii schryveri (Cross). 39. Chimney Gulch [Jefferson Co.] Colo April 1m; Chimney Gulch Col 4/27/27 2m; 4/27/27 [evidently Chimney Gulch] 1m; Chimney Gulch. Col 5/4/27 3f; Clear Creek Col 4/29/27 1f; May 1m1f; no data 18m8f.
Strymon melinus Huebner. 42. Col 1f; Denver Col June 1f; Plainview [Rocky Flats near Coal Creek, Jefferson Co.] Col July 2m; Chimney Gulch [Jefferson Co.] Col May 1m; Chimney Gulch Col 4/27/27 1m1f; Clear Creek Cañon [Jefferson Co. Colo.] 4/29/27 1m; Clear Creek [W of Denver Colo.] Col June 2m; San Francisco Calif March 1f; San F[rancisco] March 6m; Mission Beach [San Diego] Calif. 6/7/31 2m; Mission B[each] Calif 5/9/31 2m,; San Diego Cal 6/29/40 1m; S. D. [San Diego] 5/18/31 1m, 5/20/31 1m, 6/4/31 1f, 6/9/31 1m; no data 13m2f.
Ministrymon leda (W. Edwards). 4. Tucson Ariz June 1m2f; Nogalis [Nogales] Ariz June 1f.
**Calycopis*? sp. 1. Juan Viñas, C.R. [Costa Rica] 4000 ft. 1/9/24.
Plebejus lupini lutzi dos Passos. 1. Jacksons Hole Wyo July 1f.
Euphilotes bernardino bernardino (Barnes & McDunnough). 1. S. D. [San Diego] Calif. May1m (has *battoides* genitalia).
**Cupido* (*Everes*) *comyntas* (Godart). 3. Juan Viñas, C.R. [Costa Rica] 4000 ft. 13 &13 &14/9/24; Limon, Costa Rica 15 Oct. 24 sea level.
**Hemiargus hanno zacheina* (Butler & Druce). 1. Limon, Costa Rica 15 Oct. 24 sea level.

Hesperiidae

Panoquina panoquinoides errans (Skinner). 1. Big Horn Mts Wyo July 1m. This is **mislabeled**, as the species occurs only on salty ocean coasts; it is probably from the San Diego Calif. coast.
Oarisma garita (Reakirt). 2. Jacksons Hole Wyo July 2m.
Copaeodes aurantiaca (Hewitson). 14. Ariz June 2m2f; no data 6m4f.
Amblyscirtes oslari (Skinner). 2. No data 2m.
Hylephila phyleus phyleus (Drury). 4. Beaumont [Riverside Co.] Calif 7/9/40 2m; San Diego Calif 6/22/40 1f, 6/29/40 1f.
Hesperia comma idaho (W. Edwards). 1. Casper Mts [S of Casper] Wyo 8-8-32 1m.
Hesperia comma ochracea Lindsey and *H. c. colorado* (Scudder) are discussed below.
Hesperia comma manitoba (Scudder). 1. Jacksons Hole Wyo July 1f (greenish unh with yellow margins like many Canadian ssp. *manitoba*).
Polites peckius (Kirby). 4. Jacksons Hole Wyo July (one lacked the word July) 4m (1m1f others discarded totally consumed by dermestids).
Polites sonora utahensis (Skinner). 2. Jacksons Hole Wyo July 1m1f.
Polites themistocles (Latreille). 9. Walden North Park [Jackson Co.] Col 7/4/30 1f; Walden N.[orth] Park Col 7/4/30 1m; Walden N. Park Col July 1m; Jacksons Hole Wyo July 1m2f; no data 3m.
Atalopedes campestris (Boisduval). 1. Clear Creek [W of Denver] Col 9/25/29 Oslar 1m.
Ochlodes sylvanoides sylvanoides (Boisduval)=*napa* (W. Edwards). 3. Casper Mts [S of Casper] Wyo August (one Aug.) 2m1f.
Apyrrhothrix araxes arizonae (Godman & Salvin). 2. Ariz 1m; no data 1m.
Epargyreus clarus (Cramer). 15. No data 15m.
Cogia hippalus (W. Edwards). 3. Nogales Ariz July (one lacks the word July) 1m2f.

Thorybes pylades (Scudder). 6. Patagonia Mts [S of Tucson] Ariz July 1m; Nogales Ariz July 1m; Platte Cañon Col July 1m; no data 2m1f.

Pholisora catullus (Fabricius). 10. Chimney Gulch [Jefferson Co.] Col July 1f; Denver, Col 6/21/04 1f; S.W. Colo. 6/7/99 Oslar 1f; Durango [La Plata Co.] Col 5/27/99 Oslar 1m (specimen totally consumed by dermestids); no data 3m2f.

Hesperopsis libya libya (Scudder). 4. No data 2m2f, probably near San Diego Calif.

Hesperopsis alpheus (W. Edwards). 1. No data 1f.

Erynnis martialis (Scudder). 1. No data 1m.

Erynnis propertius propertius (Scudder & Burgess). 2. Durango [La Plata Co.] Col (one Colo) July 2m (1m genitalically determined [other male's abdomen eaten by dermestids] and wing pattern of both is *propertius*) (both **mislabeled**, probably from S Calif., because *E. p. propertius* only occurs in Calif., while ssp. *meridianus* Bell with identical genitalia occurs in Arizona).

Erynnis tristis tristis (Boisduval). 1. Chimney Gulch [Jefferson Co.] Colo June 1m genitalically determined (**mislabeled**, only occurs in Calif.).

Erynnis funeralis (Scudder & Burgess). 1. Beaumont [Riverside Co.] Calif 7/22/40 1m.

Erynnis afranius (Lintner)? 1. Bluffs [Aurora], Colo. 8/9/33 1f.

Pyrgus communis (Grote). 51. Ouray Peak [NW Chaffee Co.] Col 12000 ft Alt (and all three have tiny label "Oslar Ouray Peak Col" with penciled Aug) 1m2f (probably **mislabeled**, because that many individuals is dubious at this altitude); S. D. [San Diego] Calif May 1f; June 1m; no data 46.

Pyrgus philetas W. Edwards. 3. No data 2m1f. These are surely from S Ariz. 1m1f were in an envelope with 1f *P. communis*.

Pyrgus scriptura (Boisduval). 7. No data 5m2f, probably San Diego Calif. One m (mounted) is the spring form pseudoxanthus with larger white spots.

Miscellaneous Moths

Hemaris? (Sphingidae). 1 7/22/40 (probably S Calif.).

geometrid moth. 1. Mission B[each] Calif 5/9/31.

*misc. moths. 11. Juan Viñas, C.R. 1924.

Other butterflies caught by Ernest J. Oslar. Edwards' Butterflies of North America notes that Oslar caught 10m *Oeneis melissa lucilla* Barnes & McDunnough on the W side of Pikes Peak (El Paso Co. Colo.) just above Windy Gap 2000' below the summit, on July 8, 1892.

Mislabeled specimens in published works. Various Oslar specimens of *Hesperia comma* in MacNeill (1964) are mislabeled. The *ochracea* holotype is an Oslar specimen with worthless vague locality on one of Oslar's printed labels "Oslar. Platte Canon Col." which has an added penciled date of 8-14-04. And half the specimens in Lindsey's original description of *ochracea* were Oslar specimens. For *Hesperia comma ochracea*, a paratype female from "Kenosha Pass Col. Oslar August" is **mislabeled** because its underside is tawny-yellowish like foothills specimens whereas actual specimens from there are browner; the paratype from "Rio Blanco Mt." is **mislabeled**; the **mislabeled** "June 5" and "June 25" paratypes are way too early for this species. And Oslar clearly **mislabeled** the *ochracea* specimens cited by MacNeill [1964, p. 122-123] from: (1) Gunnison [Gunnison Co. Colo.] July 2m2f; (2) "Ouray Peak in Ouray Co. Colo. Aug" [Ouray Peak is actually in Chaffee Co.] 3m1f; (3) Silverton [San Juan Co. Colo.] 1f & Aug. 2m2f & Sept. 3 1904 1m; (4) "Hall's [Hall] Valley [Park Co.] Colo. July" 1m2f; (5) "Como [Park Co.] Colo. Sept" 2m (MacNeill placed specimens from Webster [Park Co. Oslar AMNH] Col June 1m2f & Aug. 3f into a "blend zone" so those may be correctly placed darker specimens, though of course the June specimens are **mislabeled**). MacNeill's (1964) specimens of *Hesperia comma colorado* from "?Ouray Peak,

Ouray Co. Aug." 2m2f and from Wilson Peak [Dolores Co.] Col 1m are **mislabeled** by Oslar; high-altitude specimens from the San Juan Mts. have not been studied adequately, but all the darker specimens MacNeill mentioned (1964, p. 123 middle) from Gunnison and the higher elevations to the southwest were collected by Oslar and probably **mislabeled**. The type specimens of *Oeneis alberta oslari* were **mislabeled** Sept. 25 1909 from Deer Creek Canyon, [Jefferson County] Colorado".

Summary of Mislabeled Oslar Specimens. The mislabeled cases (in boldface above) total 28 species that Oslar labeled from one state that were actually from another. Most involve California specimens mislabeled Colorado: *Parnassius clodius, Anthocharis sara sara, Euchloe ausonides ausonides, Zerene eurydice, Adelpha californica, Euphydryas chalcedona chalcedona, Chlosyne leanira wrightii, C. palla palla, C. acastus neumoegeni, Phyciodes mylitta mylitta, P. orseis orseis, P. pulchella pulchella, Euptoieta claudia, Argynnis nokomis nokomis, A. hydaspe purpurascens, A. zerene zerene, Boloria epithore sierra, Lycaena gorgon, Habrodais grunus, Erynnis propertius propertius, E. tristis tristis*. California specimens mislabeled Wyoming: *Phyciodes mylitta mylitta, Panoquina panoquinoides errans*. Arizona specimens mislabeled Colorado: *Chlosyne theona thekla, Phyciodes graphica*. New Mexico specimens mislabeled Colorado: *Argynnis nokomis nokomis*. Colorado specimens mislabeled Arizona: *Phyciodes cocyta*. Wyoming? specimens mislabeled Arizona: *Argynnis hydaspe rhodope*. Several were mislabeled within Colorado (?*Euphydryas anicia capella*, ?*E. a. carmentis, Phyciodes picta, Boloria eunomia caelestis, Lycaena arota virginiensis, Hesperia comma*) and one within California (*Callophrys sheridanii viridis*). Some rare migrants labeled from Colorado or El Paso Texas were probably caught farther south.

Why did Oslar Mislabel Them? Most of the mislabeled specimens lack exact month/day/year dates (except the mislabeled *Argynnis hydaspe rhodope, A. hydaspe purpurascens, Euphydryas carmentis capella*, and *Chlosyne palla palla* had exact dates). Oslar sometimes gave exact dates on common butterflies, but for mislabeled butterflies, he evidently usually chose the more desirable species and often gave them simple phony localities such as "Rico Col. July". Maybe he thought that butterflies from new localities would sell better? He mislabeled the 2m2f types of *Oeneis alberta oslari* (named after him) Deer Creek Canyon Colorado Sept. 25, 1909 (Skinner 1911), evidently in a deliberate attempt to keep others from collecting it and decreasing the sales market (actual *oslari* occurs far away at much higher altitude in May and June), because those butterflies are distinctive-looking small and grayish and he would have remembered where he collected them. That *oslari* strategy worked for 29 years. And the *Argynnis nokomis* that he mislabeled came from localities he had never visited and few were labeled with localities he had visited, in an apparent attempt to boost their sales (Scott & Fisher 2014). Perhaps he frequently just did not have the time to fully label most of his paper triangles when he collected the specimens, and then when he sold butterflies he thought they might sell better with localities but did not bother to spend the time to look up localities where that species had actually been taken, so he just wrote down localities that popped into his mind, using locality names that sounded familiar plus the approximate month of capture. Anyone who has 14 children probably would be short of time. Age-related mental decline could explain some mislabeling, but we have not analyzed the earlier specimens Oslar captured, which are scattered in numerous museums across America and some in the rest of the world. If fewer mislabelings are found in that earlier material, then aging will be suspected. But he mislabeled *Oeneis alberta* in 1909 or earlier, and his collection diary below suggests that mislabeled specimens were labeled throughout his years, with fewer after 1928.

CHRONOLOGICAL COLLECTION DIARY OF OSLAR'S SPECIMENS

Ewan (1950) wrote that Oslar "evidently kept no field books of his trips". The following list--diary--takes those few Oslar specimens that have precise year/month/day dates listed above, rearranges those dates by year/month/day and then sorts them chronologically, in order to produce a diary of collection date and locality and species collected then and there.

The following diary indicates that he started collecting in 1898. But Edwards' Butterflies of North America cites his collection July 8, 1892 of *Oeneis melissa lucilla* on Pikes Peak Colo., before he moved to Denver in 1893, and Ewan (1950) wrote that he exhibited [butterflies evidently] at the 1893 World's Fair, so all of his fully-dated collected butterflies prior to 1898 must have been sold. The records below suggested that he collected the current papered specimens continuously from 1898 to 1930, then evidently grew old and managed to sell fewer of the ones he collected in 1931-1932 (he evidently sold most of the desirable species even on those years, because the remaining specimens are mostly common, especially the ones that have month/day/year dates written on the triangles), then in 1933 and 1934 he evidently collected few specimens, and thereafter mostly gave up collecting, until in 1940 in California he collected his final batch of specimens.

According to localities on his specimen triangles, he collected butterflies in Hall "Halls" Valley and adjacent Bullion Peak and Gibsons Gulch in Park Co., a location made famous by David Bruce. Oslar possibly could have bought those butterflies from David Bruce and sold some of them.
Brown's bogus locality of Hayden Mountains Park County. Brown (1966 p. 130) ***erroneously*** claimed that in 1884 Bruce "had been on the summits of the Hayden Mountains at 12,000 feet" and also wrote that "During the summer of 1884 when in the high country Bruce made his headquarters at or near the Whale Mine in Hall Valley.", which indicates that the mountains near Hall Valley were called the Hayden Mts. thus claimed that Bruce collected in those Hayden Mts. Brown (1964) repeated that bogus locality in stating that the TL of *Chionobas* [*Oeneis*] *brucei* [Edwards] is "Vicinity of Bullion and Hayden Mountains in Hall Valley, Park Co. Colorado; 12,000 feet above sea level and higher; August.", even though all the specimens listed were labeled by David Bruce as "Bullion Mtn." or "Cashier Mts." or "Cashier." Ewan & Ewan (1981) but not Ewan (1950) copied that bogus information. Hayden Peak/Hayden Mts. 13206' is in the San Juan Mts W of Mt. Sneffels, and a second Hayden Peak is S of Aspen, while Hayden Peak does NOT occur near Hall Valley on today's maps and internet, and it does NOT occur on the map of Hayden (1877). Brown's ***mistake***, that some people in 1884 called the Hall Valley area mts. "Hayden Mts.", may have caused confusion between the bogus "Hayden Mts." in Park Co. and the Hayden Peak/Mts. in the San Juan Mts. of San Miguel Co. Colo. Oslar's mislabeled Hayden Peak/Hayden Mts. *Argynnis nokomis* were also mislabeled in SW Colorado as they had labels with SW Col or Ouray Co. or San Juan Mts. or were with specimens labeled Sneffels Mts. which is nearby in the San Juan Mts. Oslar's collection in the Gillette Museum has no Hayden Mts. specimens other than those *nokomis*. There are two *nokomis* in LACM labeled Hall Valley, so perhaps someone read "Hayden Mts. on an envelope and wrote a label thinking that the locality meant Hall Valley, although this seems unlikely because they presumably would have included Hayden Mts. on the label also; that labeling occurred prior to Brown's mistake. Bruce may have collected in the SW Colorado San Juan Mts. "Hayden Mts." in later years, but there is evidently no proof of that. Oslar evidently never collected on the real Hayden Peak/Mtn. in the San Juan Mts., although he evidently did collect in the San Juan Mts. in SW Colorado for the bronze *Cicindela longilabris* form *oslari* beetle named after him from King Solomon Peak in Needle Mts. San Juan Range 9500', and the green form from SW slope

Mt. Wilson, 12000' San Miguel Range (though he evidently mislabeled *Hesperia comma colorado* from Mt. Wilson as noted above, and Scott has never seen a *Cicindela* beetle from the alpine zone).

Oslar's specimens seem to confidently show that Oslar made some trips outside of the Denver area, including to SW Colorado in 1899 for *Euphydryas anicia carmentis* etc. (May 27-June 30), to Glenwood Springs in W Colo. in 1931 (July 11-Aug. 6), and in 1932 to the northern part of the Laramie Mts. Wyoming (S of Casper) (July 21 and July 31-Aug. 8, 1932) and the Bighorn Mts. (July 21-26, 1932); he obviously visited two daughters Mrs. Emily M. Seiler and Mrs. Virginia Corning in Casper (Aug. 7 & 22, 1932) during that trip (both lived in Casper).

His collection contains many specimens from California, the early ones evidently collected by others (including a *Vanessa atalanta* dated Sept. 1912 in San Francisco). He evidently did not visit there personally until Aug. 1-Oct. 1926 (Whitewater oil desert just NW Palm Springs & San Bernardino), Feb.-April 1927 (Los Angeles), June 28-July 6 1930 (San Diego), March 17-June 9 1931 (San Diego), May 20 1934 (San Diego), and 1940 (June 15-29 San Diego then July 9-23 Beaumont SE of San Bernardino). Those California trips in 1926-1940 were made to visit some of his children in S California: he visited two sons Walter Russell Oslar and Albert Edward Oslar in San Diego, and his daughter Mrs. Ethel R. Redd in Beaumont Calif. Another daughter Mrs. Victoria R. Hollenbeck lived in Phoenix. (Some children lived where he evidently did not collect: William Frederick Oslar of Sacramento, Calif., and Mrs. Katherine E. Taylor of Richland, Wash.) Bills and census records and obituaries indicate that in 1926 and 1940 and 1944 he lived at 4189 Julian St. in Denver Colo. until his death.

The collection diary below reveals three problems: at three times, butterflies were collected on the same dates in the mts. next to Golden Colo. ("Golden, Clear Creek, Chimney Gulch") that other butterflies were collected in SW Colorado or N Wyoming or California:

Euphydryas anicia capella June 10-29 1899 near Golden	*Euphydryas anicia carmentis* etc. May 27-June 30, 1899 in SW Colorado
Strymon melinus & *Callophrys mossii schryveri* April 29, 1927 near Golden	*Chlosyne leanira wrightii* April 29, 1927 near Los Angeles
Argynnis callippe meadii July 25, 1932 near Golden	various butterflies in the Bighorn Mts. of N Wyoming July 21-26, 1932

Obviously, Oslar could not collect two localities hundreds of miles apart simultaneously. Mislabeling could be guessed especially for the *Chlosyne* near L.A., but a reasonable explanation is that one or more of Oslar's children (or his wife Martha E. Oslar) also collected butterflies sometimes, so those near-Golden butterflies may have been collected by that son or daughter (or wife) while Oslar was away on those collecting trips. One son and two daughters still lived in Denver when he died (Ernest H. Oslar, Mrs. Constance R. Bolton, Mrs. Agnes M. Angerman). (Sons especially often learn to collect at least sometimes, and Scott's father Glenn Scott sometimes collected on the same dates as son James Scott who was far away). Scott has a specimen of *Papilio polyxenes* form *pseudoamericus* collected by Raymond "Jae" Jablonski's son Dane, who caught it after it flew over the roof of the family house. Raymond told Scott that he and his son were at Guanella Pass one day when *Erebia callias* was abundant, and Raymond told his son "Let's see who can catch 100 first"). Oslar had 14 children, so some of his sons surely collected sometimes, and traveling west to Golden was a short trip only ~7 miles from the Oslar home in north Denver.

Harrison G. Dyar (1905) named many moths collected by Oslar, including *Homoeosoma oslarellum* from Chimney Gulch, Golden, Colorado, *Salebria nogalesella* from Nogales, Arizona, *Rhodophaea intransitella* from Albuquerque, New Mexico, and *Myelois annuliferella* from Gallinas Cañon, New Mexico; unfortunately dates of collection are missing on those.

(The following dates of collected species are listed year/month/day)

1898/7/5 *Argynnis* (*Speyeria*) *aphrodite byblis*. Senator [=Maxton, Yavapai Co.] Ariz.

1898/7/7 *Argynnis* (*Speyeria*) *hydaspe rhodope*. Senator [=Maxton, Yavapai Co.] Ariz. **mislabeled.**

1899/5/27 *Pholisora catullus*. Durango Col.

1899/6/(1, 3, 4, 10, 14, 15, 16, 17, 20, 21, 23, 25, 27, 30) *Euphydryas anicia carmentis*. Most labeled S.W. Col. But dates coincide with dates for *E. anicia capella*, probably because the *capella* were collected simultaneously by his children or wife, as noted above.

1899/6/5 *Vanessa carye annabella*. Durango Colo.

1899/6/7 *Pholisora catullus*. S.W. Colo.

1899/6/10 *Coenonympha tullia ochracea*. S.W. Colo.

1899/6/10 *Euphydryas anicia capella*. S.W. Col (1m **mislabeled** because ssp. *capella* does not occur in SW Colo. and he or his son or daughter collected at Golden that day.

1899/6/10-17-20-27-29 *Euphydryas anicia capella*. Golden Col. But these dates coincide with dates for *E. anicia carmentis*, probably not indicating mislabeled dates because a reasonable explanation is that one or more of Oslar's 14 kids collected these *capella* while Oslar was away in SW Colo.

1899/6/11 *Chlosyne palla palla*. S.W. Col. **mislabeled**.

1899/6/14 *Phyciodes pulchella camillus*. S.W. Colo.

1899/6/15-20 *Euphydryas anicia capella*. Clear Creek [*capella* occurs only near Clear Creek on mts. at Golden, W of Denver] Col.

1899/6/20 *Coenonympha tullia ochracea*. Col.

1899/7/19 *Vanessa carye annabella*. [no locality].

1900/5/27 *Aglais milberti*. Golden Col.

1900/6/2-5-7-9-12-15-16-17-22 *Argynnis* (*Speyeria*) *coronis halcyone*. Golden Colo.

1900/6/9 *Argynnis* (*Speyeria*) *coronis halcyone*. Chimney Gulch Col.

1900/6/17 *Euphydryas anicia capella*. Golden Col.

1900/6/25 *Argynnis* (*Speyeria*) *coronis halcyone*. Chimney Gulch Col.

1900/8/30 *Argynnis* (*Speyeria*) *coronis halcyone*. Platte Canon Col.

1901/6/7 *Phyciodes pallida barnesi*. Glenwood Spgs Col.

1903/7/17 *Euptoieta hegesia*. Nogales Ariz.

1904/6/10 *Phyciodes picta*. S.W. Colorado. **mislabeled.**

1904/6/21 *Pholisora catullus*. Denver, Col.

1904/8/14 (the date of 8-14-04 was written in pencil on a printed label "Oslar Platte Canon Col." on the *Hesperia comma ochracea* holotype)

1904/9/3 *Hesperia comma ochracea* Silverton Col 1m AMNH (MacNeill 1964)(**mislabeled**, this ssp. only occurs in Colo. Front Range).

1912/9/16 *Vanessa atalanta*. S.[an] F.[rancisco]. Calif.

1914/8/20 *Cercyonis oetus charon*. Halls Valley Park Co. Colo.

1914/8/20 *Cercyonis oetus charon*. South Park Col.

1920 June 24 Clear Creek Canyon [Jefferson Co.] 7500 ft. Colo. Ewan (1950) wrote that this was the last Oslar field trip for which Ewan had a record (no butterfly species were mentioned).

1922/4/21 *Colias philodice* "*eriphyle*". Sedalia Col.

1922/4/27 *Colias philodice* "*eriphyle*". Sedalia Col.

1924/9/12-15 *Ithomia patilla* 1m, *Ithomia heraldica* 2m1f, *Heterosais edessa nephele* 4f (all Ithomiinae) from Juan Viñas Costa Rica 4000 ft. Did Oslar collect these, or receive them from someone else?

1926/8/1 *Junonia coenia*. Bear Lake, San Bernardino Calif.

1926/10/9 *Zerene eurydice*. Whitewater oil desert [just NW Palm Springs] S Calif.

1927/?/5-? *Callophrys dumetorum* "*affinis*" *homoperplexa*. Chimney Gulch. Col.
1927/2/27 *Colias eurytheme*. Los Angeles Calif.
1927/4/27 *Callophrys mossii schryveri*. Chimney Gulch Col.
1927/4/27 *Strymon melinus*. Chimney Gulch Col.
1927/4/29 *Callophrys mossii schryveri*. Clear Creek Col. [must be mts. at Golden, Jefferson Co.](same date as *C. leanira wrightii* in Calif. next, so one of them [probably the *wrightii*] could be **mislabeled**, but an explanation could be that one of his children collect this *schryveri* while he was in Calif.)
1927/4/29 *Chlosyne leanira wrightii*. Mint Can. L.A. Co Calif.
1927/4/29 *Strymon melinus*. Clear Creek Cañon [Jefferson Co. Colo.].
1927/5/4 *Callophrys mossii schryveri*. Chimney Gulch. Col.
1927/6/29 *Callophrys gryneus siva*. Strontia Sprgs. Col.
1927/7/28 *Colias eurytheme*. Strontia Springs Col.
1928/7/29 *Argynnis nokomis nokomis* "Hall Valley Park Co. Colo. E. J. Oslar 1m LACM (**mislabeled** from Beulah New Mex., see Scott & Fisher 2014).
1928/8/2 *Argynnis nokomis nokomis* "Hall Valley Park Co. Colo. E. J. Oslar 1f LACM (**mislabeled** from Beulah New Mex., see Scott & Fisher 2014).
1929/9/25 *Atalopedes campestris*. Clear Creek [W of Denver] Col.
1930/6/6 *Argynnis* (*Speyeria*) *edwardsii*. Denver Col.
1930/6/28 *Papilio zelicaon*. S. D. [San Diego Cal].
1930/7/4 *Polites themistocles*. Walden North Park Col.
1930/7/6 *Junonia coenia*. S. D. [San Diego Cal].
1930/7/12 *Cercyonis pegala nephele* . Glenwood Springs Col.
1931/3/17 *Coenonympha tullia california*. San Diego Cal.
1931/4/30 *Anthocharis sara sara*. San Diego Calif.
1931/4/30 *Coenonympha tullia california*. San Diego Cal.
1931/5/5 *Anthocharis sara sara*. San Diego Calif.
1931/5/5 *Colias eurytheme*. S. D. [San Diego Calif.].
1931/5/5 *Colias eurytheme*. San Diego Calif.
1931/5/9 *Strymon melinus*. Mission B[each] Calif.
1931/5/9 *Vanessa carye annabella*. Mission Beach Calif.
1931/5/10 & 20 *Junonia coenia*. S. D. [San Diego Calif.].
1931/5/10 *Colias eurytheme*. S. D. [San Diego Calif.].
1931/5/10 *Zerene eurydice*. Mission Canyon San Diego Calif.
1931/5/18-20 *Strymon melinus*. S. D. [San Diego Calif.].
1931/5/18-20-22-23 *Coenonympha tullia california*. San Diego Calif.
1931/5/19 *Anthocharis sara sara*. Mission Valley [San Diego] Calif.
1931/5/23 *Chlosyne gabbii gabbii*. Mission Valley [San Diego] Calif.
1931/5/23 to 1931 6/30 *Coenonympha tullia california*. Mission Valley [San Diego] Calif.
1931/6/1 *Anthocharis sara sara*. Mission Valley [San Diego] Calif.
1931/6/1 *Lycaena helloides*. Mission Valley S.D. [San Diego Calif.].
1931/6/1-2-4-8 *Coenonympha tullia california*. San Diego [Calif.].
1931/6/2-4 *Chlosyne leanira wrightii*. Mission Hills San Diego Co. Calif 6/2/31 4m1f; 6/2/31 4f; Mission Hills S. D. [San Diego Calif.]
1931/6/2-4-7 *Junonia coenia*. S. D. [San Diego Calif.].
1931/6/4 *Satyrium saepium saepium*. S. D. [San Diego Calif.].
1931/6/4 & 9 *Strymon melinus*. S. D. [San Diego Calif.].
1931/6/7 *Strymon melinus*. Mission Beach [San Diego] Calif.

1931/6/30 *Coenonympha tullia california*. Mission Valley [San Diego] Calif.
1931/6/30 *Zerene cesonia*. Mission Valley [San Diego] Calif.
1931/6/30 *Zerene eurydice*. Mission Valley [San Diego] Calif.
1931/7/6 *Junonia coenia*. S. D. [San Diego Calif].
1931/7/9 *Dione* "*Agraulis*" *vanillae*. S. D. [San Diego Calif].
1931/7/11-12-13-14-15-17-18 & 31 *Argynnis* (*Speyeria*) *cybele charlotti*. Glenwood Spgs Col.
1931/7/12-21-29-30 *Argynnis* (*Speyeria*) *aphrodite byblis*. Glenwood Spgs Col.
1931/7/14-16-17 *Argynnis* (*Speyeria*) *hesperis electa*. Glenwood Spgs Col.
1931/7/16 *Cercyonis oetus charon*. Glenwood Springs Col.
1931/7/16 *Colias philodice* "*eriphyle*". G. S. [Glenwood Springs Col evidently].
1931/8/3-6 *Argynnis* (*Speyeria*) *hesperis electa*. Glenwood Spgs Col.
1931/8/5 *Argynnis* (*Speyeria*) *cybele charlotti*. Glenwood Spgs Col.
1931/8/11 *Colias eurytheme*. Bluffs [Aurora] Col.
1931/9/2 *Argynnis* (*Speyeria*) *edwardsii*. City Park Denver.
1932/6/11 *Argynnis* (*Speyeria*) *edwardsii*. Denver.
1932/6/15 *Argynnis* (*Speyeria*) *callippe meadii*. Chimney Gulch Col.
1932/7/21 *Argynnis* (*Speyeria*) *cybele leto*. Garden Creek [Laramie Mts. S of Casper in Natrona Co.] Wyo.
1932/7/21 *Argynnis* (*Speyeria*) *hesperis hesperis*. Casper Wyo [evidently Garden Creek in Laramie Mts. S of Casper Natrona Co. Wyo.].
1932/7/21 *Cercyonis oetus charon*. Casper Mts. [Laramie Mts. S Casper] Wyo.
1932/7/21-23-25 *Cercyonis oetus oetus*. Big Horn Mts Wyo [evidently was S of Casper that morning, then drove here that day].
1932/7/24-25-26 *Argynnis* (*Speyeria*) *zerene platina-garretti*. Big Horn Mts Wyo.
1932/7/25 *Argynnis* (*Speyeria*) *callippe meadii*. Chimney Gulch Col. **Mislabeled**? as this date is in the middle of the Bighorn Mts. trip, or maybe one of his 14 kids collected it while he was gone.
1932/7/25 *Argynnis* (*Speyeria*) *coronis snyderi*. Bighorn Mts Wyo.
1932/7/25 *Argynnis* (*Speyeria*) *edwardsii*. Bighorn Mts Wyo.
1932/7/25 *Argynnis* (*Speyeria*) *hydaspe rhodope*. Big Horn Mts. Wyo.
1932/7/25 *Argynnis* (*Speyeria*) *mormonia eurynome*. [evidently Big Horn Mts. Wyo.
1932/7/31 *Argynnis* (*Speyeria*) *mormonia eurynome*. Deer Creek Muddy Mts. [S Casper, Natrona Co.] Wyo.
1932/7/31 *Cercyonis pegala nephele*. Nigger [now Negro] Hill Deer Creek [Laramie Mts. S of Casper] Wyo.
1932/7/31 *Lycaena heteronea gravenotata*. Deer Creek [S of Glenrock, Converse Co.] Wyo.
1932/8/3 *Argynnis* (*Speyeria*) *cybele leto*. Garden Creek [Laramie Mts. S of Casper in Natrona Co.] Wyo.
1932/8/5 *Cercyonis pegala nephele*. Garden Creek, Casper Mts. [Laramie Mts. S of Casper, Natrona Co.] Wyo.
1932/8/7 *Phyciodes tharos orantain*. Casper Wyo.
1932/8/8 *Cercyonis oetus charon*. Casper Mts. [Laramie Mts. S Casper] Wyo.
1932/8/8 *Argynnis* (*Speyeria*) *hydaspe rhodope*. Casper Mts [Laramie Mts. S Casper] Wyo.
1932/8/8 *Argynnis* (*Speyeria*) *mormonia eurynome*. Casper Mts. [Laramie Mts. S Casper] Wyo.
1932/8/8 *Hesperia comma idaho*. Casper Mts [Laramie Mts. S Casper] Wyo.
1932/8/8 *Satyrium titus immaculosus*. Casper Mts [Laramie Mts. S Casper] Wyo.
1932/8/22 *Argynnis* (*Speyeria*) *edwardsii*. Casper Wyo.
1933/7/? *Erebia callias*. Bullion Peak 12,000' [near Hall Valley Park Co. Colo.].
1933/8/9 *Erynnis afranius*? Bluffs [Aurora], Colo.

1934/5/20 *Dione* "*Agraulis*" *vanillae*. San Diego Calif.
1934/5/26-28-30 *Argynnis* (*Speyeria*) *edwardsii*. Denver Colo.
1940/6/15 *Argynnis* (*Speyeria*) *coronis semiramis*. Calif [surely from S Calif. near San Diego based on date]
1940/6/22 *Hylephila phyleus phyleus*. San Diego Calif.
1940/6/22-23 *Dione* "*Agraulis*" *vanillae*. San Diego Calif.
1940/6/29 *Hylephila phyleus phyleus*. San Diego Calif.
1940/6/29 *Strymon melinus*. San Diego Cal.
1940/7/9 *Hylephila phyleus phyleus*. Beaumont [Riverside Co.] Calif.
1940/7/9 *Vanessa virginiensis*. Beaumont [Riverside Co.] Cal.
1940/7/9-14-23 *Dione* "*Agraulis*" *vanillae*. Beaumont [Riverside Co.] Calif.
1940/7/20 *Colias eurytheme*. Beaumont [Riverside Co.] Calif.
1940/7/22 *Erynnis funeralis*. Beaumont [Riverside Co.] Calif.
1940/7/23 *Junonia coenia*. Beaumont [Riverside Co.] Calif.

Discussion

It has always been apparent that half the oldest specimens in museums—more than 100 years old especially—are mislabeled or poorly labeled. So lepidopterists must be very wary about accepting label data on very old specimens. In the 1800s, lepidopterists such as William Henry Edwards cared little about localities and dates, and few of their specimens had them. In the early 1900s more people used good localities and dates. Oslar sometimes used good localities and dates, but evidently did not like the bother of recording them much, and perhaps he wrote them only if purchasers wanted them.

Mislabeled specimens that become types cause severe problems, because the Principle of Priority makes it nearly impossible to get rid of them, and endless effort must be spent fixing them. People think that they can take a mislabeled lectotype and "fix" it by restricting the type locality to some reasonable locality. But actually only a neotype obtained from a successful petition to the ICZN can create an undisputed type locality.

Sometimes we idealize the works of ancient people who worked at the dawn of discovery of the biological creatures that populate our planet. Some people spend their entire lives delving into the works of those historical people, and interpreting their work. This paper reveals the dark side of such studies, and shows that what is historically revealed frequently is the large number of mistakes those early people made. Their studies were usually poor by today's standards, and their mistakes created endless problems that continue to burden us today. Such historical studies are unfortunately required by the Principle of Priority in the ICZN Code, which gives priority to the first—not the best—named description of an animal. Problems with old work include bad descriptions, absent or vague localities, syntype specimens including multiple taxa, missing or unidentifiable types, lectotypes that are unidentifiable or have vague or absent or mislabeled localities, arguments about the Code including differing interpretation of Code articles and valid publication and spelling, etc. etc. Mislabeled specimens can cause interpreted distributions to be wrong, and a mislabeled type can even cause improper taxonomic placement of the name. A mislabeled or unlabeled lectotype may require a petition to designate a neotype, because "restriction of the type locality" does not exist in the ICZN Code (only "proven evidence of location of the name-bearing type" can change a type locality), so endless arguments about the identity and distribution of that taxon may ensue. This paper documents the necessity for repealing the Principle of Priority that requires such great waste of time and money on historical research into bad work. If that principle were repealed, at

last we could keep good work and quickly fix bad names, and permanently inter the old bad work into the dustbin of ignored history where it properly belongs.

Conclusion

Obviously there are thousands of Oslar specimens of many kinds of insects in museums all across North America, and more in Europe and perhaps the rest of the world, many of them mislabeled. Taxonomists should never assume that the locality and date on an old specimen is valid, because very many of the oldest specimens are poorly labeled or mislabeled.

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ADDITIONS TO PREVIOUS PAPILIO (NEW SERIES) ISSUES:

#19 p. 11, plate XXXV #15 is *C. philodice* lectotype.

#22 p. 27, add to Literature Cited: Scott, J. A. 2011. Comment on the proposed designation of a neotype for the nominal species *Chionabas chryxus* Doubleday, 1849 (currently *Oeneis chryxus*; Insecta, Lepidoptera, NYMPHALIDAE). Bulletin of Zoological Nomenclature 68:211-212.

ADDITIONS TO paper "Flower Visitation by Colorado Butterflies (40,615 records) with a Review of the Literature on Pollination of Colorado Plants and Butterfly Attraction", Scott, J. A. 2014. Lepidoptera of North America 13. Contributions of the C. P. Gillette Museum of

Arthropod Diversity, Colorado State University. 190 p. (Free pdf at http://digitool.library.colostate.edu):

P. 42, *Oeneis melissa lucilla* visited *Silene acaulis* purple flower (a visited pressed flower I found in envelope from Sangre de Cristo Mts. July 1970). And A. Gradish & G. Otis (J. Lepid. Soc. 69:109, 2015) saw rare visits to *S. acaulis*, *Arenaria groenlandica*, and *Vaccinium* sp. including *vitis-idaea* in White Mts. New Hampshire).

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